

GATESURF ONU

GS Series

GATESURF GS series is a remote ONU(Optical Network Unit) of Gate-X series OLT (Optical Line Terminal) product. GS series ONU compliant to IEEE 802.3ah and it applies to FTTx applications. GS series ONU connect with OLT through PON composed of fiber and Passive Optical Splitters, and managed by OLT on EPON /CWDM system.

Features

- 2.5/1.25Gbps downstream with auto detection, 1.25Gbps upstream
- Ultra low jitter Integrated EPON SerDes (2.5/1.25Gbps)
- IEEE 802.3ah EPON MAC
- 802.3ah OAM control
- Independent 10/100 and 10/100/1000 Subscriber Ports
- 802.3 10/100 MAC and 10/100/1000 MAC
- MAC Address Learning for up to 64 MAC Addresses per Ethernet port for 802.1D Bridging
- Highly flexible 802.1Q VLAN support
- 802.1p/q support
- 40 fully-configurable queues
- 1.5 MB of integrated packet buffering
- Line-rate layer 2/3/4 packet classification and filtering for up to 256 entries
- Per-port 802.3x flow control
- 802.3ah Forward Error Correction (FEC)
- Maximum eight Logical Link IDs (LLID)
- Internal Management Information Base (MIB) counters for network statistics
- Remote Monitoring (RMON) statistics
- Embedded 80C51 processor with integrated memory
- IEEE 1149.1 JTAG Boundary Scan
- Low Power 3.3V I/O and 1.2V Core supply
- 128-pin LQFP with exposed pad, and TFBGA-169 packages
- Pin compatibility with TK3713 and TK3715
- Industrial temperature operation, -40°C to +85°C



Model Range

Model	GS-101S	GS-004S	GS-004S2	GS-008M8	GS-016M16	GS-101 CW
Port /Type	1xGE Port; 1xFE Port SFU	4xFE Port SFU	4xFE; 2xPOTS SFU	8xFE; 8xPOTS MDU	16xFE; 16xPOTS MDU	1xGE Port; 1xFE Port SFU
OAM management based on IEEE802.3ah protocol	Yes	Yes	Yes	Yes	Yes	Yes
FEC and DBA	Yes	Yes	Yes	Yes	Yes	Yes
VLAN and QoS	Yes	Yes	Yes	Yes	Yes	Yes
Transparent bridging and spanning tree protocol	Yes	Yes	Yes	Yes	Yes	Yes
IGMP Snooping	Yes	Yes	Yes	Yes	Yes	Yes
IPv4	Yes	Yes	Yes	Yes	Yes	Yes
Web management for VoIP and Telnet management	-	-	Yes	Yes	Yes	-
G711,G726 and G729 codec etc	-	-	Yes	Yes	Yes	-
T.38/G711 pass through FAX mode	-	-	Yes	Yes	Yes	-
VAD/CNG	-	-	Yes	Yes	Yes	-
Caller ID through FSK signal	-	-	Yes	Yes	Yes	-
RFC2833 DTMF	-	-	Yes	Yes	Yes	-
SFF	Yes	Yes	Yes	Yes	Yes	Yes
SFP	-	-	-	-	-	Yes
Application	Fiber to the Home/Building; VoIP service; High speed data transmission; Audio and video streaming and transfer; Higher data rate broadband sharing & etc.					



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